Massachusetts Department of Environmental Protection

Bureau of Resource Protection – Drinking Water Program

BRP WS 06 Registration & Modification Application Instructions

Permit Name

Registration of Underground Discharges to Class V Injection Wells and or Modification of an Existing Registration

Permit Code

BRP WS06

Purpose of Registration

Regulating the injection of fluids to the ground is necessary to prevent contamination of groundwater used as drinking water sources.

For Assistance with this application

Contact MA DEP Bureau of Resource Protection, Underground Injection Control Program:

(617) 348-4014

Who must apply

Any party, other than a domestic household discharging to an on-site septic system, who discharges to a Class V well as defined in 310 CMR 27.00 must apply unless exempted by 310 CMR 27.07.

Fees

- An application fee of \$240 is due when the application is submitted.
- If the Application is submitted for a Modification to an existing Registration there is no fee (No Transmittal # needed)
- There is no annual compliance fee associated with this registration.

Review timeline

If DEP fails to issue a determination on an adequately prepared BRP WS06 application within 60 days of receipt of the application and payment of the application fee, the Department will refund the entire fee and will continue with the review.

What regulations apply?

These regulations include, but are not limited to:

- Underground Injection Control Program, 310 CMR 27.00.
- Timely Action and Fee Provisions, 310 CMR 4.00.

These regulations may be purchased at
State Bookstore

Massachusetts State House
Room 116
Boston, MA 02133
617-727-2834

State Book
436 Dwight St
Springfield
413-78

State Bookstore West 436 Dwight Street, Room 102 Springfield, MA 01103 413-784-1376

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What other requirements must be considered?

Applicants should consider the need to obtain the following permits or sanctions:

- Permits of this type may require MEPA review. Please carefully examine 301 CMR 11.00, the MEPA Regulations, to determine if your project exceeds the MEPA review thresholds, or for more information contact the MEPA Unit of the Executive Office of Environmental Affairs (100 Cambridge Street, Boston, MA 02202; (617-727-5830).
- Wetlands requirement should be checked through the local Conservation Commission.
- A DEP Groundwater Discharge Permit may be required (314 CMR 5.00).
- Local Board of Health requirements should be investigated.

Note: These additional requirements are intended to serve as a guide to the applicant. It does not necessarily include **all** additional requirements.

How long is Registration valid?

The Registrations for any dewatering type activity are valid for one year. All other Registrations will remain valid for the life of the program pending that the Owner /Operator submits a Modification Application when pertinent Inventory information changes.

How to Apply

To submit an application to DEP, follow the steps described below:

Step	Action
1.	Complete a DEP Transmittal Form (for new Registrations –
	Modification applications do not need a Transmittal Form or #).
2.	Complete the BRP WS06 Application Form. Include all specified
	information. Use additional sheets if necessary.

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Step	Action
3.	Submit a complete application package including the Transmittal
	Form (Registration only) and a BRP WS06 Application Form with
	all specified attachments to the:
	MA Department of Environmental Protection
	BRP Drinking Water Program
	Underground Injection Control Program
	One Winter Street, 6th Floor
	Boston, MA 02108
4.	Submit the application fee of \$240 in the form of a check or
	money order payable to the Commonwealth of Massachusetts along with a copy of the DEP Transmittal Form to:
	MA Department of Environmental Protection
	Revenue Office
	P.O. Box 4062
	Boston, MA 02211
	Modification Applications do not need a Transmittal Form and
	there is no Fee associated with the submittal.
5.	Retain a copy of the complete application package for your files.

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Instructions to assist with completing the form:

Transaction Type	 if new / proposed well check -Initial – new If well existing prior to 9/13/03 and not registered previously check Initial – existing
	- if converting from one Well Code to another check - Conversion - if discontinuing the use of one Well Code and continuing a previously unregistered Well Code check - Partial Closure/Registration
	- if updating inventory information (Modification) check appropriate item(s): Change of Owner/Operator / Change in or Additional Well Code Change in Location Well(s) / Change in # of discharge wells

UIC Registration # - If submitting a Modification Application enter the UIC ID # which was assigned to the well(s) by DEP when you initially Registered the system and then fill out on the form all new and or updated information

Location: LAT. / **Long** – Enter Lat. / Long. coordinates if known otherwise attach a site map that indicates your facility and the location of the UIC Well(s) [copy of topo. map or print map from DEP web site (http://maps.massgis.state.ma.us/WSPA and indicate facility and UIC well(s)]

EPA Hazardous Waste Generator ID Number - If you store Hazardous Waste on site enter the appropriate ID #. If you do not have an ID # contact your Regional DEP office and ask for the Hazardous Waste section to obtain an appropriate ID #.

Well Type & Well Code – Obtain appropriate Well Type(s) and Well Code(s) from the Table below.

Average Flow (gallons/day), Depth to water table and Depth to bedrock

If not known provide best estimate

Distance to nearest private drinking water well – If not known check with Board of Health

Distance to the nearest Public Water Supply – If not known check

- http://maps.massgis.state.ma.us/WSPA

Conversion to another Well Type – Switching from one EPA Well Code to another Well Code [see Table below]

Partial Conversion to another Well Type – Discontinuing one or more Well Codes / continuing the use of an existing Well Code [see Table below]

Source of injection – Floor drain, roof drain, parking lot, slop sink, direct connection to appliance, etc.

Potential Contaminant(s) – Parameters / Chemicals that are likely to be discharged into the well (see Table below – Potential Contaminants for examples)

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Table EPA Well Types & Codes

Injection wells are classified in Title 40 of the Code of Federal Regulations (40 CFR) Sections 144.6 and 146.5. Class V has been subdivided as follows:

Ground Water Contamination Potential	Potential Contaminants	EPA Well Code
High	Pesticides, nutrients, pathogens, metals transported by sediments, salts.	5F1
Moderate	Heavy metals (Cu, Pb, Zn), organics, high levels of coliform bacteria. Contaminants from streets, roofs, landscaped areas. Herbicides, Pesticides.	5D2
High-Moderate	Variable: pesticides, nutrients, coliform bacteria.	5D3
High-Moderate	Usually organic solvents, acids, pesticides, and various other industrial waste constituents. Similar to storm drainage wells but usually higher concentrations.	5D4
Moderate-Low	Chlorinated and treated water, pH imbalance, algicides, fungicides, muriatic acid.	5G30
Moderate	pH imbalance, minerals and metals in solution (As, B, Se), sulfates.	5A5
Moderate	Hot geothermal brines with TDS between 2,000 to 325,000 mg/l. Co, CaSO ₄ , Sr, Ba and As.	5A6
Low	Potable water with temperatures ranging from 90° to 110° F, may have scale or corrosion inhibitors.	5A7
Moderate	Used geothermal waters which may be highly mineralized & include traces of arsenic, boron, fluoride, dissolved & suspended solids, animal detritus, perished animals and bacteria.	5A8
	Contamination Potential High Moderate High-Moderate Moderate-Low Moderate Low	Pesticides, nutrients, pathogens, metals transported by sediments, salts.

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Name of Well Type and Description	Ground Water Contamination Potential	Potential Contaminants	EPA Well Code
Cesspools - including multiple dwelling, community, or Regional cesspools, or other devices that receive wastes and which must have an open bottom and sometimes have perforated sides. Must serve greater than 20 persons per day if receiving solely sanitary wastes. (Settling of solids)	High	Soluble organic & inorganic compounds including household chemicals. Raw sewage with 99.9% water and 0.03% suspended solid. May contain pathogenic bacteria & viruses, nitrates, ammonia.	5W10
Septic Systems (Undifferentiated Disposal Method) - used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank. Must serve greater than 20 persons per day if receiving solely sanitary wastes. (Primary Treatment)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and 0.03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W11
Septic Systems (Well Disposal Method) - examples of wells include actual wells, seepage pits, cavitettes, etc. The largest surface dimension is less than or equal to the depth dimension. Must serve greater than 20 persons per day if receiving solely sanitary wastes. (Less treatment for square area than 5W32)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and 0.03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W31
Septic Systems (Drainfield Disposal Method) - examples of drainfields include drain or tile lines, and trenches. Must serve more than 20 persons per day if receiving solely sanitary wastes. (More treatment per square area than 5W31)	High-Low	Varies with type of system: fluids typically 99.9% water (by weight) and 0.03% suspended solids: major constituents include nitrates, chlorides, sulfates, sodium, calcium, and fecal coliform.	5W32
Domestic Wastewater Treatment Plant Effluent Disposal Wells - dispose of treated sewage or domestic effluent from small package plants up to large municipal treatment plants. (Secondary or further treatment)	High-Low	Lower levels of organics and bacteria than other septic systems and cesspools.	5W12
MINERAL AND FOSSIL RECOVERY RELATED WELLS			
Mining, Sand or Other Backfill Wells - used to inject a mixture of water and sand, mill tailings, and other solids into mined out portions of subsurface mines whether what is injected is a radioactive waste or not. Also includes special wells used to control mine fires and acid mine drainage wells.	Moderate	Acidic waters	5X13
Solution Mining Wells - used for in-situ solution mining in conventional mines, such as stopes leaching.	Moderate-Low	2.4% sulfuric acid, pH less than 2 for copper & ferric cyanide solution for gold or silver.	5X14
In-situ Fossil Fuel Recovery Wells - used for in-situ recovery of coal, lignite, oil shale, and tar sands.	Moderate	Steam, air, solvents, igniting agents.	5X15
Spent-Brine Return Flow Wells - used to re-inject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts.	Low	Variable	5X16

Continued on next page

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Name of Well Type and Description	Ground Water Contamination Potential	Potential Contaminants	EPA Well Code
INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL WELLS			
Cooling Water Return Flow Wells - used to inject water which was used in a cooling process, both open and closed loop processes	Low-Moderate	Anti-sealing additives, thermal pollution, potential for industrial spills reaching ground water.	5A19
Industrial Process Water and Water Disposal Wells - used to dispose of a wide variety of wastes and wastewaters from industrial, commercial, or utility processes. Industries include refineries, chemical plants, smelters, pharmaceutical plants, laundromats at dry cleaners, tanneries, carwashes, laboratories, etc. Industry and waste stream must be specified (e.g., Petroleum Storage Facility - storage tank condensation water; Electric Power Generation Plant - mixed waste stream of laboratory drainage, fireside water, and boiler blowdown; Car Wash - Mixed waste stream of detergent, oil and grease, and paved area washdown; Electroplating Industry - spent solvent wastes, etc).	High	Potentially any fluid disposed by various industries, suspended solids, alkalinity, sulfate, volatile organic compounds.	5W20
Automobile Service Station Disposal Well - repair bay drains connected to a disposal well. Suspected of disposal of dangerous or toxic wastes – BANNED BY EPA - 04/01/00.	High	Heavy metals, solvents, cleaners, used oil and fluids, detergents, organic compounds.	5X28
RECHARGE WELLS			
Aquifer Recharge Wells - used to recharge depleted aquifers and may inject fluids from a variety of sources such as lakes, streams, domestic wastewater treatment plants, other aquifers, etc.	High-Low	Variable: water is generally of good quality	5R21
Saline Water Intrusion Barrier Wells - used to inject water into fresh water aquifers to prevent intrusion of salt water into fresh water aquifers.	Low	Varies: advanced treated sewage, surface urban and agricultural runoff, and imported surface waters.	5B22
Subsidence Control Wells - used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with overdraft of fresh water and not used for the purpose of oil or natural gas production.	Low	No specific type of injected fluid noted, similar to aquifer recharge wells.	5S23
MISCELLANEOUS WELLS			
Radioactive Waste Disposal Wells - all radioactive waste disposal wells other than Class IV wells.	Unknown Low-level radioactive wastes.		5N24
Experimental Technology Wells - wells used in experimental or unproven technologies such as pilot scale in-situ solution mining wells in previously unmined areas.	Low-Moderate	Varies depending on project.	5X25
Aquifer Remediation Related Wells - wells used to prevent, control, or remediate aquifer pollution, including but not limited to Superfund sites.	Unknown	Nutrients used in Biodegredation of organics, oil/grease, phenols, toluene.	5X26
Abandoned Drinking Water Wells - used for disposal of waste.	Moderate	Potentially any kind of fluid, particularly brackish or saline water, hazardous chemicals and sewage.	5X29
Other Wells - any other unspecified Class V wells: Well type/purpose and injected fluids must be specified.	Unknown	Variable	5X27

Massachusetts Department of Environmental Protection Bureau of Resource Protection – Drinking Water Program Class V Wells and Water Pollution Control Regulations

The following list describes common types of discharges to Class V wells (310 CMR 27.05) that may require an Underground Injection Control Program Registration. Many Class V well activities require discharge permits through the Groundwater Discharge Permit Program (314 CMR 5.00). The thresholds for permit requirements are given for each type of well usage. If a facility has or will have Groundwater Discharge Permit, a UIC Registration is not required [Inventory information is obtained from the GWP Program by the UIC Program].

- 1) Return flow wells used to return to the ground water used for heating or cooling energy in a heat exchanger (requires a Groundwater Discharge Permit if greater than 15,000 gpd).
- 2) Non-contact cooling water return flow wells (requires a Groundwater Discharge Permit if over 2,000 gpd and/or is greater than 40 degrees Celsius).
- 3) Drainage wells used to drain surface storm runoff into soil or bed rock (**requires a Groundwater Discharge Permit if runoff is considered a "storm water discharge" as defined in 314 CMR 5.04.** This is a case-by-case determination and primarily relates to industrial activity involving toxic pollutants and hazardous materials. Groundwater Discharge Permits for parking lots are also considered on a case-by-case basis. Domestic storm runoff wells do not require a Groundwater Discharge Permit at this time.)
- 4) Dry wells, seepage pits, and leaching pits used for the introduction of waste fluids, other than those treated in septic systems (all industrial discharges, regardless of discharge rate and degree of treatment, require Groundwater Discharge Permits unless exempted in another category).
- 5) Recharge wells used to replenish the water in an aquifer (**Groundwater Discharge Permits are not required**).
- 6) Salt water intrusion barrier wells designed to inject water into a fresh water aquifer to prevent the intrusion of salt water into the fresh water (**Groundwater Discharge Permits are not required**).
- 7) Sand backfill, placing a mixture of water and sand, mill tailings, or other solids into surface and subsurface mines (does not require Groundwater Discharge Permits if the fill is "clean".)
- 8) Septic systems and leaching pits used for the disposal of sanitary sewage only do not require UIC registration at this time. (A Groundwater Discharge Permit is required for systems discharging greater than 15,000 gpd and may be required for systems designed to discharge between 10,000 to 15,000 gpd. Septic systems designed to receive less than 10,000 gpd are regulated under 310 CMR 15.000, The State Environmental Code (Title 5).
 - * Please note the discharge of sanitary sewage to a dry well is not allowed pursuant to 310 CMR 15.000.
- 9) Subsidence control wells used to inject fluids to reduce or eliminate subsidence associated with the overdraft of groundwater (**Groundwater Discharge Permit is not required**).
- 10) Geothermal disposal wells related to electrical generation and geothermal wells used for heating and aquaculture (requires a Groundwater Discharge Permit if the thresholds of activities 1 and or 2 listed above are triggered).

End of Document



See Instructions

Massachusetts Department of Environmental Protection

Bureau of Resource Protection – Drinking Water Program

BRP WS-06

Transaction Type:

Registration:

Registration of Underground Discharges to Injection Wells Modification to an Existing UIC Registration (BRP WS-06)

☐ Initial – new ☐ Initial – existing ☐ Conversion ☐ Partial Closure/Registration

State

State

Legal Contact Phone #

Commercial Non-Profit

Regional

Zip Code

Zip Code

Legal Contact Fax #

Federal

Residential

Address of Operator (if different than Facility)

		Modification:	☐ Change of	Owner/Operator	☐ Ch	nange in or <i>i</i>	Additional Well Code(s)
			☐ Change in	Location Well(s)	☐ Ch	nange in # o	f discharge wells
See Instructions	i	For Modification	ns (required): Ul	C Registration #	issued	by DEP in the	original registration letter
on the computer,	Α.	Facility Info	rmation (For	Modifications e	nter nev	v or revise	ed information)
use only the tab key to move your cursor - do not		Facility Name				Facility Stree	et Address
use the return key.		Company Name (if	different)	SIC Code		Facility #	(DEP Use Only)
1		City/Town		State		Zip Code	
X		County		Location: Latitude		Location	n: Longitude
See Instructions		Facility Telephone	Number (optional)		Facility I	E-mail (optiona	al)
		EPA Hazardous W	aste Generator ID Nu	ımber	EPA Ha	zardous Waste	e Generator ID Number
	B.	Owner/Oper	ator Informat	tion (For Modifi	cations	enter nev	v or revised information)
		Name of Owner				Address of C	Owner (if different than Facility)

C. Injection Well Information (For Modifications enter new or revised information)

Individual 🗌	Area			
Well Type	Well Code		Number of Wells	
Well Construction (check all that apply):	☐ Drywell	☐ Septic Tank ☐ Cesspool	
☐ Improved Sinkho	ole Drainfield/Le	achfield	☐ Dustwater - ground	

Other (describe)

City/Town

City/Town

Legal Contact

Ownership Type:

Name of Operator (if different than owner)

Private: Industrial

Local

Public:

See instructions - Table

State



BRP WS-06

Registration of Underground Discharges to Injection Wells Modification to an Existing UIC Registration (BRP WS-06)

Transmittal Number	
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•	C. Injection Well Information	tion (For Modificatio	ns enter new or r	revised information) (cont)	
See instructions - Table	Type of Discharge				
	Average Flow (gallons/day)	Month/Year of Well Constru	iction Month/Ye	ear ceased using Well for previous use	
	Number of Entry Points:				
	# entry points to existing system	# entry points for propos	sed system Total nu	umber of Entry Points to system	
See instructions	Depth to water table	Dept	n to bedrock		
See instructions	Soil type(s) at site- e.g. fill, sandy ti	II, gravel, sand Dista	Distance to nearest private drinking water well		
See instructions	Distance to the nearest Public Water	er Supply Name	ame of nearest Public Water Supply		
	Please include any additiona this injection well – including MSDS sheets for chemicals	site map showing facility	and UIC well(s), or		
	D. Operational Status				
	WELL OPERATION STATUS	S: Active/Partial (Closure	ve	
	☐ Under Construction	Temp. Abandoned	Permanently Abar	ndoned/Not Reported Previously	
See instructions - Table	☐ Conversion to another W	/ell Type	sure/Conversion to a	another Well Type (Well Code)	
See instructions	Source of injection				
	Other (Describe)		Rate of Injection (gpm o	r other unit value)	
See instructions	Potential Contaminant #1		Potential Contaminant #	32	
	Potential Contaminant #3		Potential Contaminant #	44	



BRP WS-06

Registration of Underground Discharges to Injection Wells Modification to an Existing UIC Registration (BRP WS-06)

	Transmittal Number
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E. Affidavit

The injection well(s) described above is used for placement or injection of fluids into the ground. I/we understand that this well is subject to inventory requirements and compliance with the regulations under the Underground Injection Control Program established pursuant to the Safe Drinking Water Act, P.L. 93-523, and amendments, and I/we hereby serve notice that the well is proposed or in service.

I/we agree:

- 1. That the well(s) described herein will not be used for discharges other than those described above;
- 2. That I/we will notify the Massachusetts Drinking Water Program/UIC Program (on forms provided by the UIC program) if any of the information (including Ownership, Location or Type of discharge) for the above well(s) changes, but before the change (30 days minimum notice on ownership/operator and 60 day notice on all other changes);
- 3. That I/we will notify the Massachusetts Drinking Water Program/UIC Program (on forms provided by the UIC program - Pre-Closure Notification Form) when the above well(s) is no longer in use, but before abandonment and file a Post-Closure Notification Form within seven days of completing the closure with the UIC program.
- 4. That I/we will maintain financial responsibility for the well described above; and
- 5. That I/we will provide a sampling tap and allow sampling at the point of injection.

I/We certify under penalty of law that I/We have personally examined and am familiar with the information submitted in this document and all attachments and based on my personal knowledge or inquiry of those individuals immediately responsible for obtaining the information, I/We believe the information is true, accurate, and complete. I/We am aware that there are significant penalties for submitting false information, including possible fines and imprisonment.

Signature of Preparer	Date
Printed Name of Preparer	Position/Title



Massachusetts Department of Environmental Protection

Bureau of Resource Protection – Drinking Water Program BRP WS-06

Registration of Underground Discharges to Injection Wells Modification to an Existing UIC Registration (BRP WS-06)

ansmittal Number

F. Additional Instructions

Who must register: Any party, other than those who are exempt as per 310 CMR 27.07, who discharges to a Class V Well as defined in 310 CMR 27.00 must apply.

If you have not previously Registered and you are closing the use of the well(s) for one (or more) uses but want to continue using the well(s) for one (or more) uses you must mark the top of this form Partial Closure/Registration and attach to this submittal a copy of the PreClosure Notification Form for those uses that you intend to discontinue to discharge to the Class V Well.

If you have not previously Registered and you are converting the well from a "prohibited" use to a use that is "authorized by rule" you must mark the top of this form Conversion and attach to this submittal a copy of the PreClosure Notification Form for those uses that you intend to discontinue to discharge to the Class V Well.

Who must submit a Modification Form If the Owner or Operator information changes you must notify the UIC program at least 30 days prior to the change(s).

If you are adding wells (Area Registration); relocating the well(s), changing the discharge (Well Code) to the well(s) or adding additional discharges (Well Code) you must notify DEP at least 60 days prior to the change.

If you are closing the well(s) and relocating the well(s) and are planning to have the same discharge (Well Code), you must mark the top of this form Relocation of Well(s) and attach to this submittal a PreClosure Form for the well(s) being closed.

Fees: An application fee of \$240.00 (effective 06/27/03) is due when the Registration application is submitted. There is no application fee associated with submitting a Modification application to an existing Registration.

No Transmittal Form (or number) is needed when submitting a Modification to an existing Registration.

There is no annual compliance fee associated with this Registration.

Questions:

Any questions may be directed to the UIC Program at (617) 348-4014 or to the UIC Contact at your Regional DEP Office.

Submit Application to: UIC Program, MA DEP

1 Winter Street – 6th Floor

Boston, MA 02108